

604. OPERATION RESEARCH

1. Operations Research: Concept and Significance of Operations Research, Evolution of Operations Research, Steps in Designing Operations Research Studies; Operations Research Models.
2. Linear Programming and Its Applications: Graphic Method and Simplex Method, Duality Problem.
3. Transportation and Assignment Problems.
4. Waiting Line Models: Waiters and Services, Mathematical Distribution of Queues, Basic Models of Queuing theory and Applications. Replacement theory.
5. Simulation: Application of Simulation Techniques; Monte-Carlo Approach.
Net-Work Analysis: Introduction to PERT and CPM; Application areas of PERT and CPM.

Suggested Readings:

1. Agrawal, J. D. and Sagarika Ghosh: Quantitative Techniques for Financial Analysis, Indian Institute of Finance, New Delhi.
2. Billy, E. Gillett: Introduction to Operations Research - A Computer Oriented Algorithmic Approach, Tata McGraw Hill Publishing Ltd., New Delhi.
3. Lucey. T: Quantitative Techniques, D. P. Publications, London.
4. Sharma, K. R: Quantitative Techniques and Operations Research: Kalyani Publication, Ludhiana.
5. Sharma S.C., Sehenoy G. V., Srivastava V. K.: Quantitative Techniques for Managerial Decision Making; Wiley Western Ltd, New Delhi.
6. Taha, Hamdy A.: Operations Research - An Introduction, Prentice Hall, Delhi.
7. Vazsonyi, Andrew and Herbert F. Spriner: Quantitative Analysis for Business, Prentice Hall, New Delhi.
8. Vohra, N. D.: Quantitative Techniques in Management, Tata McGraw-Hill, New Delhi.
9. Wanger, H. M.: Principles of Operations Research, Prentice Hall, Delhi.
10. Wastsman, Terry J. and Parramor Keith: Quantitative Methods in Finance, International Thompson Business Press.